

SES Space and Defense Application for Experimental Special Temporary Authority
Narrative Statement

(1) Name, address, phone number (also e-mail address and facsimile number, if available) of the applicant.

Applicant:

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(2) Description of why an STA is needed.

SES Space & Defense (“SES SD”), a wholly-owned subsidiary of SES S.A. (“SES”), provides satellite solutions to U.S. government customers to meet mission critical needs. SES SD is seeking an experimental special temporary authority (“STA”) in order to test and demonstrate the Get SAT Nano Sat-H and Milli Sat-H antennas (“Get SAT antennas”) which will support communications on mobile platforms, including aeronautical services.

The Get SAT antennas will communicate with the SES-17 geostationary (“GSO”) space station at 67.1° W.L.¹ transmitting in the 29.5-30.0 GHz frequencies. The proposed operation of Get SAT antennas with the SES-17 geostationary orbit spacecraft will not

¹ See Application for Market Access of SES Americom, Inc., ICFS File No. SAT-MPL-20221018-00144, (granted Mar. 9, 2023).

cause harmful interference to adjacent GSO systems. The SES-17 network is on the Approved Space Station List.²

Specifically, SES SD requests this STA to perform time-sensitive testing and demonstration of the Get SAT antennas to assess the antenna's suitability to support satellite communications to U.S. Government customers deployed around the world.

Pursuant to Sections 25.115(f)(1) and 25.146(a)(2) of the Commission's rules, SES SD hereby certifies that the earth station operations proposed herein will comply with the applicable equivalent power flux-density levels in Article 22, Section II, and Resolution 76 of the International Telecommunication Union Radio Regulations.

SES SD further certifies that these operations will continue to comply with 47 C.F.R. § 25.289, and that all operations in the 29.5-30.0 GHz bands will be conducted in compliance with Article 22, Section II, and Resolution 76 of the ITU Radio Regulations.

In the 29.5-30.0 GHz band, where GSO FSS is primary, the SES SD terminal will comply with the Off-Axis EIRP density envelopes specified in 47 C.F.R. § 25.218 and will operate in accordance with applicable coordination agreements for GSO satellites with which it communicates, ensuring compliance with regulatory requirements and minimizing interference with co-primary services.

SES SD will comply with the out-of-band emissions limits specified in Section 25.202 of the Commission's rules regarding frequency tolerance and emission limits.

SES SD will cease transmissions if instructed by the Commission or the satellite operator in the event of any reported interference.

(3) Time and Date of Proposed Operation

SES SD requests expedited processing to enable testing to begin by July 21, 2026 for six months. The timing is driven by the need to conduct time-sensitive testing and demonstrations for the U.S. government.

(4) Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).

The transmitting antenna will operate as mobile (including aeronautical) earth stations.

(5) Description of the location(s) and geographical coordinates of the proposed operation.

SES SD will test the Get SAT antennas for mobile operations within the listed radius at

² See FCC, Approved Space Station List <https://www.fcc.gov/approved-space-station-list> (last visited Aug. 29, 2025).

Location	Latitude / Longitude	Radius (km)
Pendleton, Oregon	45° 40' 8.9322" N/-118° 47' 12.8682" E	5km

SES SD will also run aerial testing with the Get SAT antennas at the following location:

Location	Latitude / Longitude	Radius (km)
Pendleton, Oregon	45° 40' 8.9322" N/-118° 47' 12.8682" E	161 km

(6) Transmit equipment to be used, including name of manufacturer, model, and number of units.

Get SAT Nano Sat-H, [1] units
Get SAT Milli Sat-H, [1] units

(7) Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).

Get SAT Nano Sat H: Maximum transmitted EIRP will be 37.7 dBW and antenna gain of 30.5 dBi. The transmitted power is 8 W and the maximum EIRP density will be 12.8 dBW/4kHz.

Get SAT Milli Sat H: Maximum transmitted EIRP will be 48.7 dBW and antenna gain of 36.5 dBi. The transmitted power is 25 W and the maximum EIRP density will be 20.0 dBW/4kHz.

For all operations, SES SD will comply with the radiofrequency radiation exposure limits in 47 C.F.R. § 1.1310 and apply the measures recommended in the Commission's OET Bulletin 65 to ensure compliance.

(8) Emission Designator

Get SAT Nano Sat-H: 1M24G1W
Get SAT Milli Sat-H: 3M00G1W

(9) Overall height of antenna or antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see part 17 of this Chapter concerning notification to the FAA

The antenna's overall height is less than 1 meter, but it may be placed on top of a vehicle bringing its approximate height to 3 meters at max.

(10) Directional Antenna Characteristics

Width of the antenna beam in degrees at the half-power point	2 degrees
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Orientation of the antenna in the horizontal plane	0-360 degrees
Orientation of the antenna in the vertical plane	0-90 degrees

Annex A: Aircraft Radius from Pendleton, Oregon

The flight tests will take off from Pendleton Army Aviation Support Facility (AASF), Pendleton, Oregon and will include Oregon and Washington with a radius of operation of approximately 161 km/100 mi. The flight paths are depicted in the image below.

